

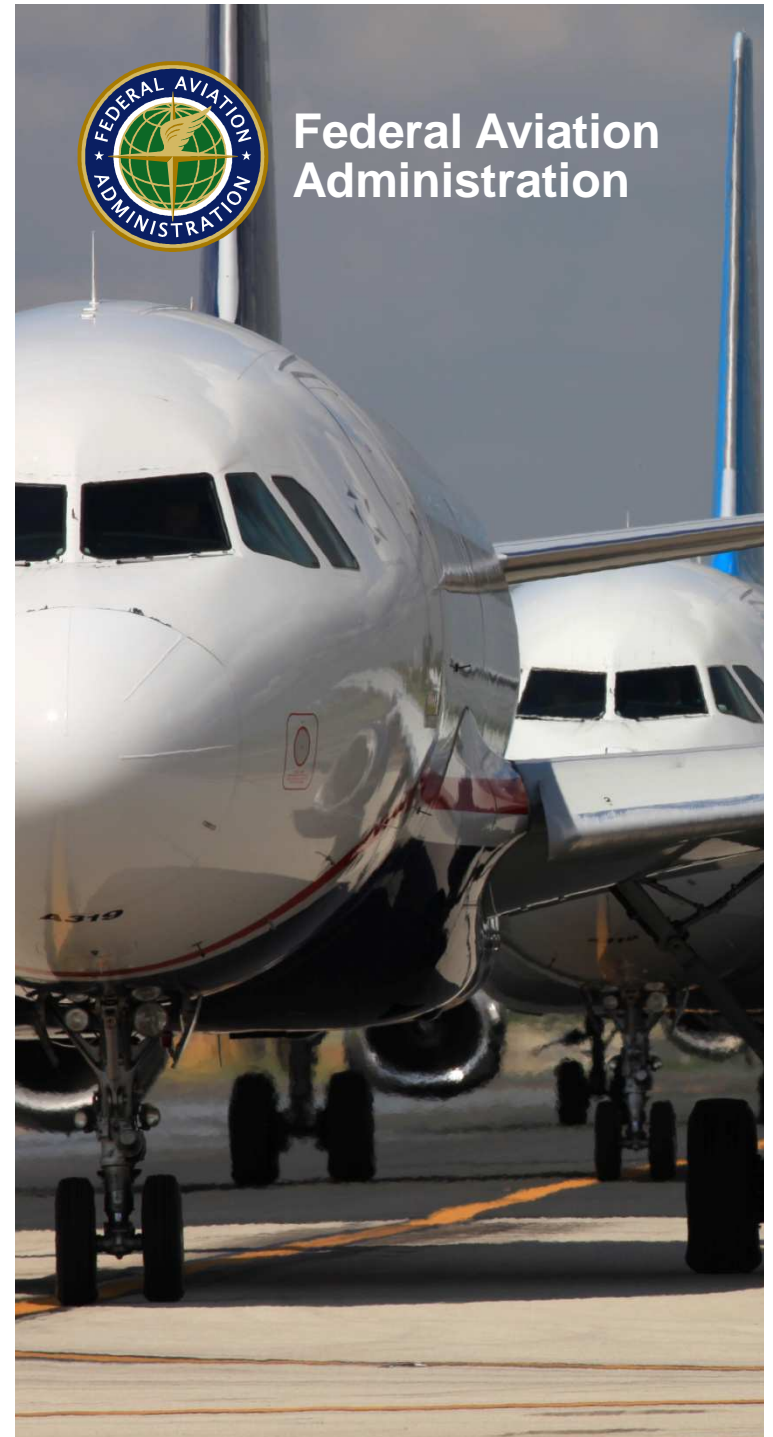
Hazardous Materials Transportation

Transporting Hazardous Materials by Air (Overview)

Presented to: PHMSA Multi-Modal Seminar

By: Wayne Knight

Date: 29 – 30 July 2014



Federal Aviation Administration

Our Mission

Provide quality services to ensure and promote aviation safety in support of national security and the national aerospace system.

Our Objective

Prevent fatalities resulting from improper shipments of hazardous materials in U.S. air commerce.



Who does the FAA regulate??

Those who offer hazardous materials:

- Shippers
- Passengers

Those who accept and transport:

- Air Carriers
- Indirect Air Carriers
(consolidators/freight forwarders/couriers)



What Does the FAA Do?

- **The FAA ensures and promotes aviation safety by conducting:**
 - Air carrier inspections
 - Shipper inspections
 - Repair station inspections
 - Incident investigations
 - Enforcement activity
 - Outreach

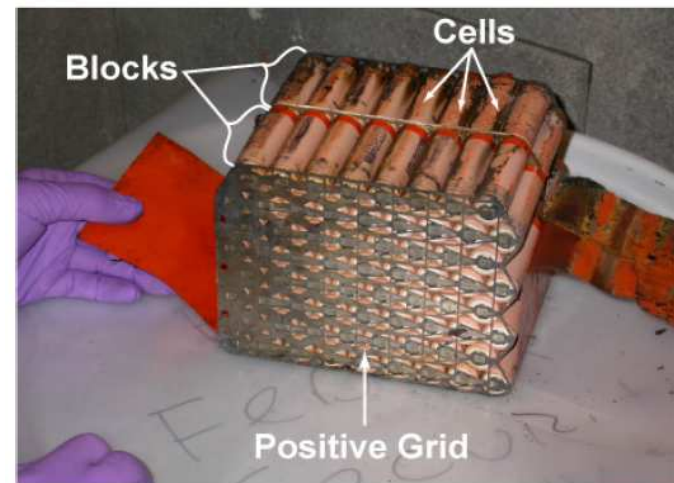


Why the Concern for Air Shipments?

- **Critical nature of aircraft**
 - Pressurized cabin
 - Unable to pull over or stop at 36,000 feet and 450 miles per hour
 - Access to cargo may be restricted
 - ValuJet 592 (May 11, 1996)



Hydrogen Peroxide – Passenger Aircraft

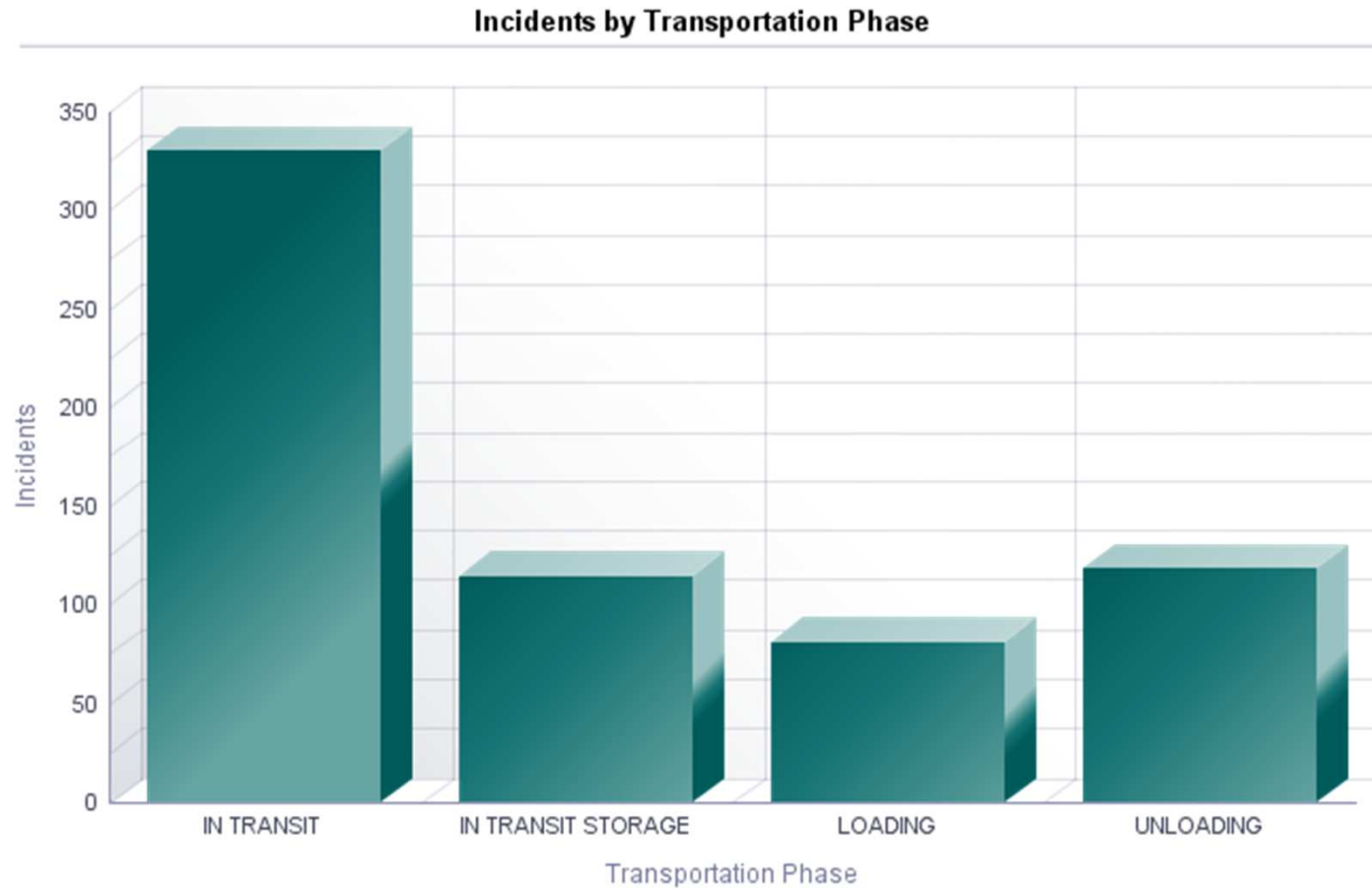


Lithium Batteries – Cargo Only Aircraft



Incidents by Air

As of 7/29/2014



Causes

As of 7/29/2014

		Incidents	Hospitalized	Non-Hospitalized	Fatalities	Damages
Mode Of Transportation	Cause					
FAA-AIR	BROKEN COMPONENT OR DEVICE	4	0	0	0	\$0
	CAUSE NOT REPORTED	324	0	2	0	\$0
	COMMODITY SELF-IGNITION	1	0	0	0	\$0
	CONVEYER OR MATERIAL HANDLING EQUIPMENT MISHAP	7	0	0	0	\$0
	DEFECTIVE COMPONENT OR DEVICE	20	0	0	0	\$3,345
	DROPPED	66	0	0	0	\$0
	FORKLIFT ACCIDENT	13	0	0	0	\$0
	FREEZING	2	0	0	0	\$0
	HUMAN ERROR	53	0	0	0	\$1,072
	IMPACT WITH SHARP OR PROTRUDING OBJECT (E.G., NAILS)	11	0	0	0	\$2,600
	IMPROPER PREPARATION FOR TRANSPORTATION	79	0	0	0	\$1,000
	INADEQUATE PREPARATION FOR TRANSPORTATION	23	0	0	0	\$0
	LOOSE CLOSURE, COMPONENT, OR DEVICE	16	0	0	0	\$0
	MISSING COMPONENT OR DEVICE	1	0	0	0	\$0
	OVER-PRESSURIZED	3	0	0	0	\$0
	OVERFILLED	3	0	0	0	\$0
	ROLLOVER ACCIDENT	1	0	0	0	\$112,500
	TOO MUCH WEIGHT ON PACKAGE	3	0	0	0	\$0
	VALVE OPEN	13	0	0	0	\$0
	VEHICULAR CRASH OR ACCIDENT DAMAGE	2	0	0	0	\$67,000
	WATER DAMAGE	3	0	0	0	\$0



Undeclared

As of 7/29/2014



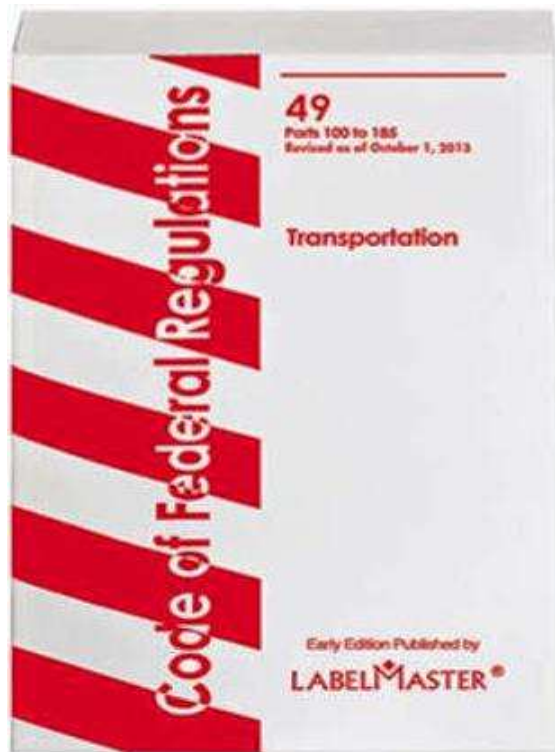
More than half all the reported incidents, by air, involved undeclared hazardous materials shipments!

Incident State	Incidents	Hospitalized	Non-Hospitalized	Fatalities	Damages
Alabama	1	0	0	0	\$0
Alaska	70	0	0	0	\$0
Arizona	1	0	0	0	\$0
California	25	0	0	0	\$0
Colorado	1	0	0	0	\$0
Connecticut	2	0	0	0	\$0
Florida	20	0	0	0	\$0
Hawaii	2	0	0	0	\$0
Idaho	2	0	0	0	\$0
Illinois	9	0	0	0	\$0
Indiana	12	0	0	0	\$0
Iowa	1	0	0	0	\$0
Kansas	6	0	0	0	\$0
Kentucky	70	0	0	0	\$0
Maryland	4	0	0	0	\$0
Massachusetts	10	0	0	0	\$0
Michigan	11	0	0	0	\$0
Minnesota	4	0	0	0	\$0
Missouri	6	0	0	0	\$0
Montana	1	0	0	0	\$0
Nebraska	3	0	0	0	\$0
Nevada	5	0	0	0	\$0
New Hampshire	1	0	0	0	\$0
New Jersey	10	0	0	0	\$0
New York	7	0	0	0	\$0
North Carolina	3	0	0	0	\$0
North Dakota	3	0	0	0	\$0
Ohio	11	0	0	0	\$0
Oklahoma	1	0	0	0	\$0
Oregon	5	0	0	0	\$0
Pennsylvania	11	0	0	0	\$0
Puerto Rico	4	0	0	0	\$0
Rhode Island	2	0	0	0	\$0
South Carolina	1	0	0	0	\$0
South Dakota	1	0	0	0	\$0
Tennessee	7	0	0	0	\$0
Texas	18	0	0	0	\$1,000
Utah	1	0	0	0	\$0
Virginia	1	0	0	0	\$0
Washington	7	0	0	0	\$0
Wisconsin	2	0	0	0	\$0
ZZ - Foreign Country or Other	20	0	0	0	\$0
Grand Total	382	0	0	0	\$1,000

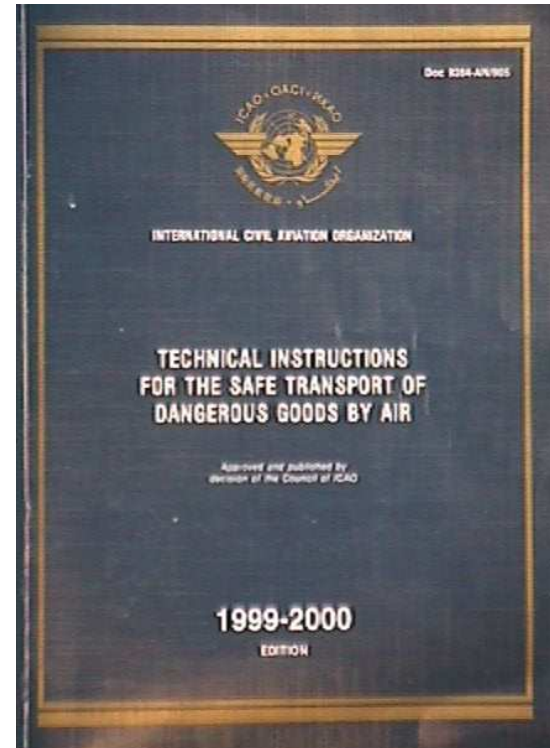


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The Controlling Documents



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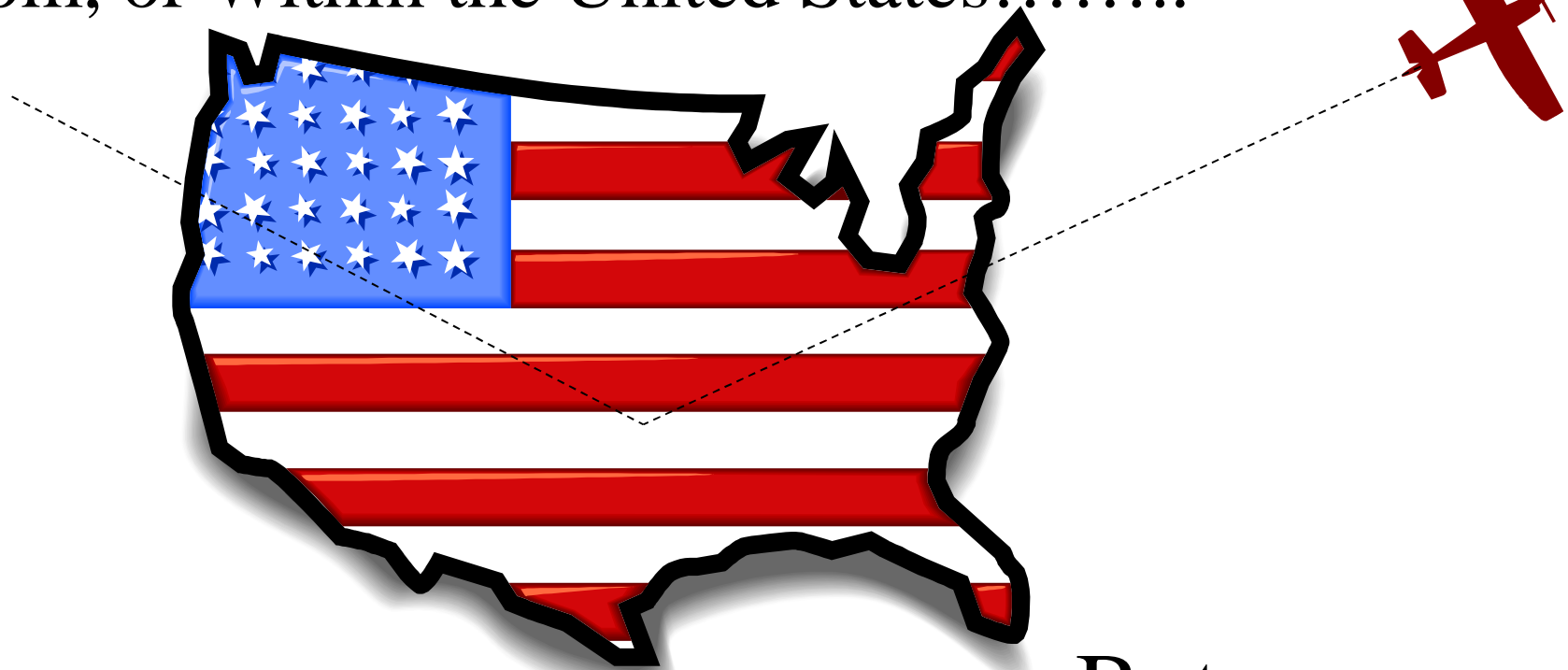
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What is our Jurisdiction?

Typically, anything that flies To, Through, From, or Within the United States.....



But...



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... it could be anywhere in the world, if the shipment boards a U.S. flagged aircraft!



We will and do cooperate with foreign authorities!



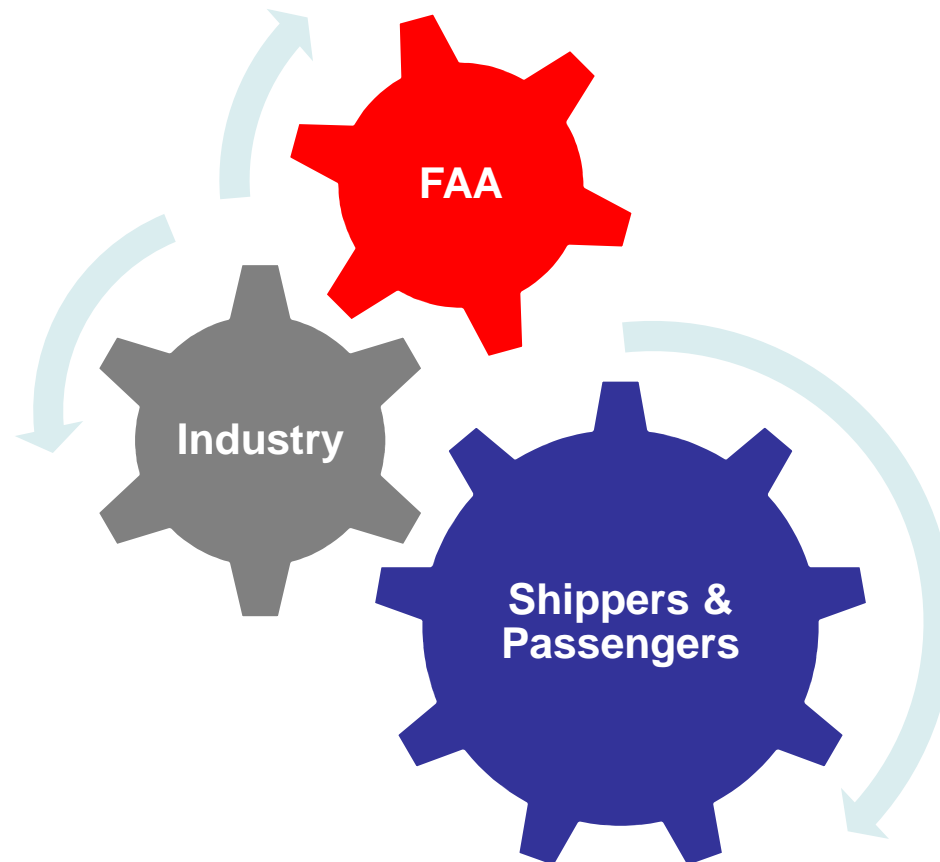
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When the FAA Comes Knocking.....



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Outreach: Safe Transportation = Team Effort





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